Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

International application No. PCT/JP2004/009623 30.06.2004 D1.07.2003 International Patent Classification (IPC) or national classification and IPC C07D295/08, H01G9/038, 9/14, H01M10/40 Applicant OTSUKA CHEMICAL CO., LTD. 1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 2. This REPORT consists of a total of 4 sheets, including this cover sheet. 3. This report is also accompanied by ANNEXES, comprising: a. (sent to the applicant and to the International Bureau) a total of 16 sheets, on the disclosure in the international surface by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international Bureau only) a total of (indicate type and number of electronic carrier(s)) (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) (sent to the International Bureau only) a total of (indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). 4. This report contains indications relating to the following items: Box No. II Basis of the report Box No. II Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability citations and explanations supporting such statement Box No. V Certain documents cited Certain documents ci	Applicant's or agent's file reference POSJ10401	FOR FURTHER ACTIO	ON	See Form PCT/IPEA/416
International Patent Classification (IPC) or national classification and IPC	International application No.	International filing date (da	ay/month/year)	Priority date (day/month/year)
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a. (sent to the applicant and to the International Bureau) a total of 16	2. This REPORT consists of a total of	4	sheets, including	g this cover sheet.
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		-	-	
Box No. VI Certain documents cited	Box No. V Reasoned s	tatement under Article 35(2)	_	lty, inventive step or industrial applicability;
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Box No. VII Certain defects in the international application	Box No. VII Certain def	ects in the international appli	ication	
Box No. VIII Certain observations on the international application	Box No. VIII Certain obs	ervations on the internationa	l application	
Date of submission of the demand Date of completion of this report		Date	of completion of the	is report
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Name and mailing address of the IPEA/JP Authorized officer	Name and mailing address of the IPEA/JP	Auth	norized officer	
	Facsimile No.	Tele	phone No.	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009623

Box	No. I	Basis of the report		
1.		n regard to the language, this report is based on the internation cated under this item.	al application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purports.	_	· · · · · · · · · · · · · · · · · · ·
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.4)		
		international preliminary examination (Rule 55.2 and/o	or 55.3)	
2.	recei	n regard to the elements of the international application, this is iving Office in response to an invitation under Article 14 are report): the international application as originally filed/furnished the description:		
		pages1-98		as originally filed/furnished
		pages*	received by this Authority on	many and the second of the sec
		pages*	received by this Authority on	
	\boxtimes	the claims:		
		nos.	Per	as originally filed/furnished
		nos.*	as amended (togethe	r with any statement) under Article 19
		nos.* 126-276	received by this Authority on	28.04.2005
		nos.*	received by this Authority on	
	\boxtimes	the drawings:		
		sheets fig. 1-10		as originally filed/furnished
		sheets*	received by this Authority on	
		sheets*	received by this Authority on	
		a sequence listing and/or any related table(s) - see Suppleme	ental Box Relating to Sequence L	isting.
3.	\boxtimes	The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos. 1-125		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "supe	rseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009623

l.	Statement			
	Novelty (N)	Claims	126-276	YE
		Claims		NO
	Inventive step (IS)	Claims	126-276	YE.
		Claims	- V	МО
	Industrial applicability (IA)	Claims	126-276	YE
		Claims		NO

2. Citations and explanations (Rule 70.7)

Documents

Document 1: WO 2002/076924 A1 (Nisshinbo Industries,

Inc.), 3 October 2002

Document 2: Tenside, Surfactants, Detergents, 1993, Vol.

30, No. 5, pages 328-30

Explanation

Claims 126 to 276

The inventions set forth in claims 126 to 276 are novel and involve an inventive step relative to documents 1 and 2 cited in the international search report.

Documents 1 and 2 do not specifically disclose the quaternary ammonium salt represented by formula (1) set forth in claim 126. Meanwhile, taking into consideration the disclosures in the test data and the like in the description of the present application and in the annexes to the response to the written opinion, said salt produces the advantageous effect of having superior electrical conductivity compared to a salt having a similar structure to the 1-methyl-1-methoxyethyl-pyrrolidinium tetrafluoroborate disclosed in document 1, which has a different length of alkylene group at substituent position 1 on the cation.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/009623

Box	No. VI Certain documents cited			
1.	Certain published documents (Rule 70.10)			
	Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
	JP 2004-006803 A	08.01.2004	11.04.2003	22.04.2002
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2.	Non-written disclosures (Rule 70.9)		D-4	e of written disclosure
2.	Non-written disclosures (Rule 70.9) Kind of non-written disclosure	Date of non-written d	lisclosure referrin	e of written disclosure g to non-written disclosure (day/month/year)
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